

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/103635 A1

(51) International Patent Classification⁷:

B23Q 7/16

(74) Agent: Leitzinger Oy; Tammasaarenkatu 1, FI-00180 Helsinki (FI).

(21) International Application Number:

PCT/FI2004/050054

(22) International Filing Date:

4 May 2004 (04.05.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20035070

22 May 2003 (22.05.2003) FI

(71) Applicant (for all designated States except US): PIVATIC OY [FI/FI]; Varastokatu 8, FI-05800 Hyvinkää (FI).

(72) Inventors; and

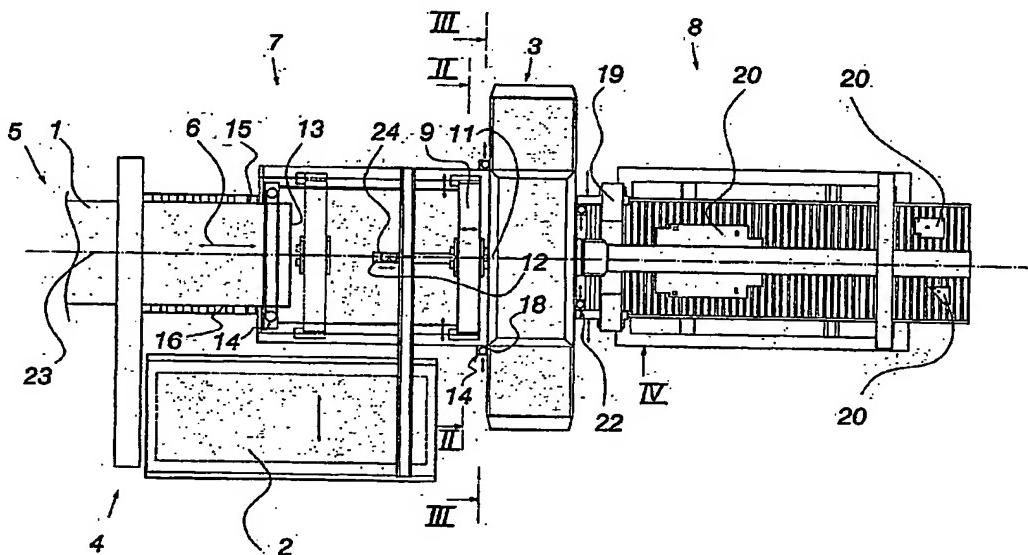
(75) Inventors/Applicants (for US only): SAARILUOMA, Heikki [FI/FI]; Marjatantie 5, FI-05840 Hyvinkää (FI). PITKÄNEN, Veikko [FI/FI]; Kansankatu 27 A 3, FI-05900 Hyvinkää (FI). MÄENPÄÄ, Ari [FI/FI]; Impivaarantie 49, FI-05400 Jokela (FI).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BI, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: FEED MECHANISM



(57) Abstract: A feed mechanism for feeding a material (1,2) to be processed into a working assembly (3) included in a sheet processing line, said feed mechanism comprising equipment (4,5) for handling both single sheets (2) and a strip (1) unloaded from a reel, and which equipment optionally provides a guidance either for the single sheets (2) or the strip (1) onto an entry track (6) to the working assembly (3). The feed mechanism comprises at least one web guide (14,22), a first feeder (9), a barrier (11) for determining the position for a leading edge (13) of the single sheet (2) or the strip (1), a feeding means (12) for bringing the leading edge (13) of the single sheet (2) or the strip (1) against said barrier (11), at least one arrest cylinder (18) for immobilizing the processed single sheet (2) or strip (1) relative to the entry track (6), a second feeder (19).



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.